

Amendment to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims 1 and 2 (cancelled).

Claim 3 (currently amended) A system for replacing live human ancillary medical assistance in order needed to prompt, encourage and guide a ~~blind as well as a sighted~~ user in relationship to utilization of medical apparatuses, said system comprising:

a medical apparatus used for a particular medical or therapeutic function, ~~as needed, where of a type that conventionally requires~~ live human ancillary medical assistance is normally physically present with the user in order to verbally prompt, encourage, give measurements or guide a user in connection with utilization of said medical apparatus and ~~or~~ in correlation with any medical procedure working in synthesis with said medical apparatus;

a self-contained electronic assembly ~~for replacing live human ancillary medical assistance by automatically verbally prompting or guiding a blind or sighted user to initiate use of the medical apparatus, as needed, and by automatically providing verbal encouragement and guidance to the user when utilizing said medical apparatus when required, without live human ancillary medical assistance being given for such purposes, said self-contained electronic assembly~~ comprising a single microcontroller unit controlled by a functional program and an audio storage unit, said audio storage unit storing digital data representing having at least one ~~stored~~ audible verbal message for prompting and initiating use or providing understanding for the user when utilizing the medical apparatus, ~~as needed,~~ and at least one ~~stored~~ audible verbal message for guiding the user's use of said medical apparatus; wherein the functional program instructs the single microcontroller unit ~~when required~~ regarding the operation of said electronic assembly and when to automatically generate, including the function of prompting, encouraging and guiding verbal audible messages for the user concerning said medical apparatus; said electronic assembly eliminating , thus, replacing the need for live human ancillary medical assistance to be present with the user to provide said verbal audible messages when the user is

utilizing said medical apparatus;

means for powering said electronic assembly; and

a speaker in communication with said electronic assembly, wherein upon direction from said microcontroller said speaker receiving a data signal from said electronic assembly representing an ~~for receiving one of the stored~~ audible verbal message stored in ~~from~~ said audio storage unit ~~upon direction from said microcontroller unit and transmitting the at least one stored~~ so that said audible verbal message is automatically generated and transmitted directly to the user to encourage compliance with the usage guidelines for ~~utilization of~~ said medical apparatus as ~~needed~~ by the user without the necessity of having a live human ancillary medical assistant physically present with the user to provide said audible verbal message to initiate use or to instruct or encourage ~~present with the patient user for such purposes.~~

Claim 4 (previously presented) The system of claim 3 wherein said self-contained electronic assembly further including means for verbally indicating to the user a measurement or result achieved by the user from the performance of the required or recommended therapeutic procedure with said medical apparatus; wherein the measurement or result achieved is calculated through mathematical and logic calculations performed by said single microcontroller unit based on instructions received from the functional program.

Claim 5 (previously presented) The system of claim 4 wherein said means for verbally indicating having means for converting digital audio data into continuous analog signal.

Claim 6 (currently amended) The system of claim 4 wherein said means for verbally indicating comprising:

means for receiving analog signals relating to the user's performance with the medical apparatus;

a level setting unit providing a performance level or goal for said medical apparatus; and

means for converting the receiving analog signals from said medical apparatus into digital data;

wherein an encouragement message sent from audio storage unit to the speaker by direction of the single microcontroller is based on the analog signal received from said medical

apparatus as compared to ~~and~~ the performance level or goal provided by the level setting unit.

Claim 7 (previously presented) The system of claim 6 wherein said means for receiving is a gauge provided on said medical apparatus and a gauge connector in communication with the gauge and a signal input unit of said single microcontroller unit.

Claim 8 (previously presented) The system of claim 7 wherein said level setting unit in communication with said signal input unit.

Claim 9 (currently amended) The system of claim 3 wherein said audio storage unit having a first verbal message providing a verbal prompting message to initiate use of the medical apparatus; wherein said single microcontroller unit directs the audio storage unit to send the a first verbal message to the speaker in order to prompt the user to initiate use of said medical apparatus device ~~as needed~~.

Claim 10 (currently amended) The system of claim 9 wherein said self-contained electronic assembly having a timing device for determining when to automatically send said at least one stored verbal message from said audio storage unit to said speaker in order to prompt the user to initiate use of said medical apparatus as needed in relationship to said medical function of said medical apparatus ~~as needed~~.

Claim 11 (currently amended) The system of claim 10 wherein said single microcontroller unit is programmed to direct the audio storage unit of output signals at a set time to send a the first verbal message from the audio storage unit to the speaker in order to prompt the user to initiate use of said medical apparatus from the audio response relayed from a Signal Output Unit of the electronic assembly at a rate appropriate for the regeneration of an audible response from the audio data.

Claim 12 (currently amended) The system of claim 9 wherein said single microcontroller unit continues to direct the audio storage unit to send the first verbal message or another verbal message stored in the audio storage unit to the speaker on a spaced apart continuous basis until said single microcontroller unit learns that the user has initiated performance of the required procedure with said medical apparatus.

Claim 13 (currently amended) The system of claim 9 wherein after the required procedure

has been performed by the user said single microcontroller unit is programmed to wait for a predetermined therapeutic time period before automatically directing said audio storage unit to send a next initial verbal prompting message to the user for prompting the user to initiate another required procedure; wherein ~~as-needed~~ the user is automatically prompted and encouraged to perform multiple required procedures with said medical apparatus device being employed during a single day period as therapeutically required or recommended for said medical apparatus.

Claim 14 (previously presented) The system of claim 3 wherein said self-contained electronic assembly further comprising means for verbally indicating comprising:

means for determining a measurement or result achieved by the user from performing the required procedure with said medical apparatus as needed; and

one or more verbal encouragement messages stored within said audio storage unit;

wherein a signal corresponding to the measurement or result achieved by the user is sent by said means for determining to the audio storage unit which provides an appropriate verbal encouraging or guiding message which is sent to the speaker to verbally indicate to the user the measurement or result determined and the encouraging or guiding message.

Claim 15 (previously presented) The system of claim 14 wherein said self-contained electronic assembly further comprising a timer for dictating when audio messages are sent to the speaker by said audio response unit based on instructions contained within the functional program.

Claim 16 (currently amended) The system of claim 15 further comprising a level setting unit storing a target measurement; wherein the verbal encouraging or guiding message sent is chosen from a plurality of verbal messages stored in said audio data message storage unit; wherein, ~~in relationship to the functional program stored within the microcontroller unit that defines the behavior of said medical apparatus in accordance to a defined function,~~ at least one of the plurality of verbal encouraging or guiding messages is used where the measurement or result determined is lower than the target measurement and at least one of the plurality of verbal encouragement messages is used where the measurement or result determined is higher than the target measurement; wherein the plurality of verbal messages allow an appropriate verbal

message to be selected, according to the user's measurement or result performance of the required procedure according to said medical apparatus.

Claim 17 (currently amended) A system for replacing live human ancillary medical assistance in order ~~needed~~ to prompt, encourage and guide a ~~blind or sighted~~ user with the use of a medical apparatus, said system comprising:

a medical apparatus having a particular medical or therapeutic function where ~~and of a type that conventionally~~ live human ancillary medical assistance is normally physically present with the user in order to verbally ~~to~~ prompt, encourage and guide a ~~blind or sighted~~ user in connection with the use of said medical apparatus or in correlation with any medical procedure working in synthesis with said medical apparatus; ~~and~~

a self-contained means for ~~replacing live human ancillary medical assistance by~~ automatically verbally prompting the user ~~without live human ancillary medical assistance being given~~ to initiate use of said medical apparatus to perform a medical procedure achieved through the use of said medical apparatus without a live human ancillary medical assistant physically instructing or encouraging the user;

means for automatically verbally indicating and verbally responding accordingly to the user based on a measurement or result achieved by the user from the user's performance of the required procedure associated with the medical apparatus, said means for verbally indicating and verbally responding disposed within the housing as said means for verbally prompting; and

a housing connected to the medical apparatus;

wherein said means for ~~replacing live human ancillary medical assistance by~~ automatically verbally prompting and said means for automatically verbally indicating and verbally responding are both disposed within a said housing.

Claim 18 (cancelled)

Claim 19 (currently amended) The system of claim ~~17~~ wherein said means for automatically verbally indicating comprising:

means for determining a measurement or result achieved by the user from performing the required procedure with said medical apparatus;

means for establishing a target measurement or result for said medical apparatus;
an audio response unit;
means for converting digital data into analog through regeneration;
a signal output unit in communication with said means for converting;
wherein audio data is successively relayed to the Signal Output unit at a rate appropriate for the regeneration of the audible response according to said medical apparatus;
means for powering said audio response unit; and
a speaker in communication with said signal output unit;
wherein an output signal corresponding to the measurement or result achieved by the user is sent by said means for determining to the audio response unit which provides a verbal message relayed from stored audio data which is sent to the speaker to verbally indicate to the user said measurement or result achieved and also sends a verbal encouragement message appropriate for the measurement or result determined based on the target measurement or result provided by said means for establishing ~~according to the function of said medical apparatus as needed.~~

Claim 20 (currently amended) The system of claim 19 wherein said audio response unit including an audio message storage unit which sends a the verbal encouragement message to the speaker based on a comparison of the measurement or result achieved to the a target measurement or result ~~in relationship to said medical apparatus as needed.~~

Claim 21 (previously presented) The system of claim 19 wherein the verbal encouragement message sent is chosen from a plurality of verbal messages stored in the audio message storage unit; wherein at least one of the plurality of verbal encouragement messages is used where the measurement or result determined is lower than the target measurement or result and at least one of the plurality of verbal encouragement messages is used where the measurement or result determined is higher than the target measurement or result; wherein the plurality of verbal messages allow an appropriate verbal message to be selected according to the user's measurement or result performance of the required procedure according to said medical apparatus as needed.

Claim 22 (currently amended) An automated verbal prompting and indication device for a

medical apparatus ~~to be used by a blind as well as a sighted user~~, said medical apparatus of a type where that conventionally requires live human ancillary medical assistance is normally present with a user to ensure use is initiated by the ~~blind as well as the sighted~~ user in order to prompt encourage give measurements or guide use of said medical apparatus ~~as needed~~, said automated prompting device comprising:

a housing connected to the medical apparatus;

electronic means for ~~replacing live human ancillary medical assistance by~~ automatically verbally prompting a user ~~without live human ancillary medical assistance~~ to initiate use as ~~needed~~ for said medical apparatus to perform or guide a ~~or~~ recommended procedure achieved through utilization of said medical apparatus, without having to have a live human ancillary medical assistant physically present ~~instruct, encourage or provide information to the user;~~ wherein said verbal prompting is achieved without instructions, encouragement or information about the medical apparatus from a live human ancillary medical assistant or from a remote location; and

electronic means for automatically verbally indicating a response ~~as needed~~ according to utilization of said medical apparatus ~~when~~ based on a measurement or result being achieved by the user from the user's performance of the procedure using ~~according to~~ said medical apparatus and without encouragement or instructions from a live human ancillary medical assistant or from a remote location;

wherein said electronic means for automatically verbally prompting and said electronic means for automatically verbally indicating are both disposed within said housing.

Claim 23 (currently amended) The automated verbal prompting and indication device of claim 22 wherein said electronic means for automatically verbally prompting is part of a self-contained electronic assembly in communication with a speaker and means for powering said electronic assembly, said electronic assembly comprising a single microcontroller unit and an audio storage unit, said audio storage unit having at least one stored verbal message for prompting the user to initiate use of said medical apparatus ~~as needed~~ to perform the required procedure; wherein said single microcontroller unit automatically directs the audio storage unit to

send a first verbal message to the speaker in order to prompt the user to initiate use of said medical apparatus by the user, said electronic assembly disposed within said housing.

Claim 24 (currently amended) The automated verbal prompting and indication device of claim 23 wherein after the required procedure has been performed by the user said microcontroller unit is programmed to wait for a predetermined time period, ~~as needed~~, before directing said audio storage unit to send a next verbal prompting message to the user for prompting the user to initiate another required procedure; wherein the user is automatically encouraged by said electronic assembly communicating through the speaker to perform multiple required procedures with said medical apparatus during a single day period ~~as required or recommended~~ without having a live human ancillary medical assistant present or without having to receive a communication from a remote location.

Claim 25 (currently amended) The automated verbal prompting and indication device of claim 22 wherein said means for verbally indicating comprising:

means for determining a measurement or result achieved by the user from performing the required procedure with said medical apparatus;

an audio response unit;

means for powering said audio response unit; and

a speaker in communication with said audio response unit;

wherein a signal corresponding to the measurement or result achieved by the user is sent by said means for determining to the audio response unit which generates a verbal message which is sent to the speaker to verbally indicate to the user said measurement or result achieved and also sends a verbal functional message appropriate for the measurement or result determined in accordance with particular guidelines for said medical apparatus;

wherein said means for determining, said audio response unit, said means for powering and said speaker are disposed within said housing.

Claim 26 (currently amended) The automated verbal prompting and indication device of claim 25 further comprising a level setting unit for providing a target measurement or result from use of the medical apparatus; wherein said audio response unit including an audio message

storage unit which sends a verbal encouragement message to the speaker based on a comparison of the measurement or result achieved to the target a measurement or result provided by said level setting unit ~~in accordance with said medical apparatus as needed; said level setting unit~~ disposed within said housing.

Claim 27 (currently amended) The automated verbal prompting and indication device of claim 26 wherein the verbal encouragement message sent is chosen from a plurality of verbal messages stored in the audio message storage unit; wherein at least one of the plurality of verbal encouragement messages is used where the measurement or result determined is lower than the target measurement or result and at least one of the plurality of verbal encouragement messages is used where the measurement or result determined is higher than the target measurement or result; wherein the plurality of verbal messages allow an appropriate verbal message to be selected according to the user's measurement or result from performance of the required procedure ~~as needed~~ according to said medical apparatus.

Claim 28 (previously presented) The automated verbal prompting and indication device of claim 22 further comprising means for storing information relating to the user usage of said medical apparatus or to measurements or results achieved by the user from use of said medical apparatus as needed.

Claim 29 (cancelled).

Claim 30 (currently amended) The automated verbal prompting and indication device of claim 28 ~~for~~ further comprising means for transmitting the stored information to a retrieving location that is remote to whatever current location of said medical apparatus.

Claim 31 (cancelled).

Claim 32 (previously presented) The system of claim 3 wherein said medical apparatus contained within a first housing and said self-contained electronic assembly contained within a separate second housing.

Claim 33 (previously presented) The system of claim 3 wherein said medical apparatus and said self-contained electronic assembly contained within a single housing.

Claim 34 (previously presented) The system of claim 17 wherein said medical apparatus

contained within a second housing which is separate from the housing for said means for automatically verbally prompting.

Claim 35 (previously presented) The system of claim 17 wherein said housing containing said means for automatically verbally prompting also containing said medical apparatus.

Claim 36 (previously presented) The automated verbal prompting and indication device of claim 22 further comprising a housing containing both said means for automatically verbally prompting and said means for verbally indicating and verbally responding.

Claim 37 (new) The system of claim 3 wherein said medical apparatus is selected from a group consisting of: (1) adhesively attached devices utilized for patients requiring assistance for continual monitoring of temperature, (2) Telemetry devices that relate to V-tach, V-fib, SVT, or Brady arrhythmia's (3) Peak flow devices used for measuring lung capacity, (4) Ventilators, (5) Heart rate monitoring devices, (6) Oxygen tank informative devices, (7) Blood pressure machines, and (8) Pulse monitoring devices.